

SEQUENCE LISTING

<110> Frank B. Gertler
James E. Bear
Jurgen Wehland
Joseph Loureiro

<120> Methods and Products for Regulating Cell
Motility

<130> M0656/7064 (HCL)

<140> unassigned

<141> 2001-04-03

<150> 60/194,564

<151> 2000-04-03

<160> 11

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 10

<212> PRT

<213> Listeria monocytogenes

<220>

<221> UNSURE

<222> (1)...(1)

<223> Xaa is Asp or Glu

<221> UNSURE

<222> (7)...(7)

<223> Xaa is any amino acid

<400> 1

Xaa	Phe	Pro	Pro	Pro	Pro	Xaa	Asp	Asp	Glu
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<210> 2

<211> 802

<212> PRT

<213> Mus musculus

<400> 2

Met	Ser	Glu	Gln	Ser	Ile	Cys	Gln	Ala	Arg	Ala	Ala	Val	Met	Val	Tyr
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		20						25					30		
Ser	Arg	Val	His	Ile	Tyr	His	His	Thr	Gly	Asn	Asn	Thr	Phe	Arg	Val
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Val	Gly	Arg	Lys	Ile	Gln	Asp	His	Gln	Val	Val	Ile	Asn	Cys	Ala	Ile
		50				55					60				
Pro	Lys	Gly	Leu	Lys	Tyr	Asn	Gln	Ala	Thr	Gln	Thr	Phe	His	Gln	Trp
65					70					75				80	
Arg	Asp	Ala	Arg	Gln	Val	Tyr	Gly	Leu	Asn	Phe	Gly	Ser	Lys	Glu	Asp
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Ala	Asn	Val	Phe	Ala	Ser	Ala	Met	Met	His	Ala	Leu	Glu	Val	Leu	Asn
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Ser	Gln	Glu	Ala	Ala	Gln	Ser	Lys	Val	Thr	Ala	Thr	Gln	Asp	Ser	Thr
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Asn	Leu	Arg	Cys	Ile	Phe	Cys	Gly	Pro	Thr	Leu	Pro	Arg	Gln	Asn	Ser
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Gln	Leu	Pro	Ala	Gln	Val	Gln	Asn	Gly	Pro	Ser	Gln	Glu	Glu	Leu	Glu
145					150					155					160
Ile	Gln	Arg	Arg	Gln	Leu	Gln	Glu	Gln	Gln	Arg	Gln	Lys	Glu	Leu	Glu

Arg	Glu	Arg	Met	165	Glu	Arg	Glu	Arg	Leu	170	Glu	Arg	Glu	Arg	Leu	175	Glu	Arg
			180						185						190			
Glu	Arg	Leu	Glu	Arg	Glu	Arg	Leu	Glu	Gln	Glu	Gln	Leu	Glu	Arg	Gln			
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Arg	Gln	Glu	Arg	Glu	His	Val	Glu	Arg	Leu	Glu	Arg	Glu	Arg	Leu	Glu			
		210				215						220						
Arg	Leu	Glu	Arg	Glu	Arg	Gln	Glu	Arg	Glu	Arg	Glu	Arg	Leu	Glu	Gln			
225					230					235					240			
Leu	Glu	Arg	Glu	Gln	Val	Glu	Trp	Glu	Arg	Glu	Arg	Arg	Met	Ser	Asn			
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Ala	Ala	Pro	Ser	Ser	Asp	Ser	Ser	Leu	Ser	Ser	Ala	Pro	Leu	Pro	Glu			
			260					265					270					
Tyr	Ser	Ser	Cys	Gln	Pro	Pro	Ser	Ala	Pro	Pro	Pro	Ser	Tyr	Ala	Lys			
		275					280					285						
Val	Ile	Ser	Ala	Pro	Val	Ser	Asp	Ala	Thr	Pro	Asp	Tyr	Ala	Val	Val			
		290				295					300							
Thr	Ala	Leu	Pro	Pro	Thr	Ser	Thr	Pro	Pro	Thr	Pro	Pro	Leu	Arg	His			
305					310					315					320			
Ala	Ala	Thr	Arg	Phe	Ala	Thr	Ser	Leu	Gly	Ser	Ala	Phe	His	Pro	Val			
				325					330					335				
Leu	Pro	His	Tyr	Ala	Thr	Val	Pro	Arg	Pro	Leu	Asn	Lys	Asn	Ser	Arg			
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Pro	Ser	Ser	Pro	Val	Asn	Thr	Pro	Ser	Ser	Gln	Pro	Pro	Ala	Ala	Lys			
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Ser	Cys	Ala	Trp	Pro	Thr	Ser	Asn	Phe	Ser	Pro	Leu	Pro	Pro	Ser	Pro			
		370				375					380							
Pro	Ile	Met	Ile	Ser	Ser	Pro	Pro	Gly	Lys	Ala	Thr	Gly	Pro	Arg	Pro			
385					390					395					400			
Val	Leu	Pro	Val	Cys	Val	Ser	Ser	Pro	Val	Pro	Gln	Met	Pro	Pro	Ser			
				405					410					415				
Pro	Thr	Ala	Pro	Asn	Gly	Ser	Leu	Asp	Ser	Val	Thr	Tyr	Pro	Val	Ser			
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Pro	Pro	Pro	Thr	Ser	Gly	Pro	Ala	Ala	Pro	Pro	Pro	Pro	Pro	Pro	Pro			
			435				440						445					
Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Pro	Pro	Pro	Leu	Pro	Pro			
			450				455					460						
Leu	Ala	Ser	Leu	Ser	His	Cys	Gly	Ser	Gln	Ala	Ser	Pro	Pro	Pro	Gly			
465					470					475					480			
Thr	Pro	Leu	Ala	Ser	Thr	Pro	Ser	Ser	Lys	Pro	Ser	Val	Leu	Pro	Ser			
				485					490					495				
Pro	Ser	Ala	Gly	Ala	Pro	Ala	Ser	Ala	Glu	Thr	Pro	Leu	Asn	Pro	Glu			
			500					505					510					
Leu	Gly	Asp	Ser	Ser	Ala	Ser	Glu	Pro	Gly	Leu	Gln	Ala	Ala	Ser	Gln			
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Pro	Ala	Glu	Ser	Pro	Thr	Pro	Gln	Gly	Leu	Val	Leu	Gly	Pro	Pro	Ala			
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Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Ser	Gly	Pro	Ala	Tyr	Ala	Ser	Ala			
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Leu	Pro	Pro	Pro	Pro	Gly	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Ser	Thr			
				565					570					575				
Gly	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Asn	Gln	Ala			
				580					585				590					
Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Ala	Pro	Pro	Leu	Pro	Ala	Ser	Gly			
				595				600					605					
Ile	Phe	Ser	Gly	Ser	Thr	Ser	Glu	Asp	Asn	Arg	Pro	Leu	Thr	Gly	Leu			
		610				615					620							
Ala	Ala	Ala	Ile	Ala	Gly	Ala	Lys	Leu	Arg	Lys	Val	Ser	Arg	Val	Glu			
625					630					635					640			
Asp	Gly	Ser	Phe	Pro	Gly	Gly	Gly	Asn	Thr	Gly	Ser	Val	Ser	Leu	Ala			
				645					650					655				
Ser	Ser	Lys	Ala	Asp	Ala	Gly	Arg	Gly	Asn	Gly	Pro	Leu	Pro	Leu	Gly			
			660					665					670					
Gly	Ser	Gly	Leu	Met	Glu	Glu	Met	Ser	Ala	Leu	Leu	Ala	Arg	Arg	Arg			
		675					680					685						
Arg	Ile	Ala	Glu	Lys	Gly	Ser	Thr	Ile	Glu	Thr	Glu	Gln	Lys	Glu	Asp			
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Ala	Asn	Cys	Ile	Thr	Ile	Asn	Pro	Asp	Ile	Ile	Phe	Ala	Ala	Thr	Asp	
			20					25					30			
Ser	Glu	Asp	Ser	Ser	Leu	Asn	Thr	Asp	Glu	Trp	Glu	Glu	Glu	Lys	Thr	
		35					40					45				
Glu	Glu	Gln	Pro	Ser	Glu	Val	Asn	Thr	Gly	Pro	Arg	Glu	Tyr	Glu	Thr	Ala
	50					55					60					
Arg	Glu	Val	Ser	Ser	Arg	Asp	Ile	Lys	Glu	Leu	Glu	Lys	Ser	Asn	Lys	
65					70					75				80		
Val	Arg	Asn	Thr	Asn	Lys	Ala	Asp	Leu	Ile	Ala	Met	Leu	Lys	Glu	Lys	
				85					90					95		
Ala	Glu	Lys	Gly	Pro	Asn	Ile	Asn	Asn	Asn	Asn	Ser	Glu	Gln	Thr	Glu	
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Asn	Ala	Ala	Ile	Asn	Glu	Glu	Ala	Ser	Gly	Ala	Asp	Arg	Pro	Ala	Ile	
		115					120					125				
Gln	Val	Glu	Arg	Arg	His	Pro	Gly	Leu	Pro	Ser	Asp	Ser	Ala	Ala	Glu	
	130					135					140					
Ile	Lys	Lys	Arg	Arg	Lys	Ala	Ile	Ala	Ser	Ser	Asp	Ser	Glu	Leu	Glu	
145					150					155				160		
Ser	Leu	Thr	Tyr	Pro	Asp	Lys	Pro	Thr	Lys	Val	Asn	Lys	Lys	Lys	Val	
				165					170					175		
Ala	Lys	Glu	Ser	Val	Ala	Asp	Ala	Ser	Glu	Ser	Asp	Leu	Asp	Ser	Ser	
			180					185					190			
Met	Gln	Ser	Ala	Asp	Glu	Ser	Ser	Pro	Gln	Pro	Leu	Lys	Ala	Asn	Gln	
		195					200					205				
Gln	Pro	Phe	Phe	Pro	Lys	Val	Phe	Lys	Lys	Ile	Lys	Asp	Ala	Gly	Lys	
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Trp	Val	Arg	Asp	Lys	Ile	Asp	Glu	Asn	Pro	Glu	Val	Lys	Lys	Ala	Ile	
225				230						235				240		

Val	Asp	Lys	Ser	Ala	Gly	Leu	Ile	Asp	Gln	Leu	Leu	Thr	Lys	Lys	Lys
				245					250					255	
Ser	Glu	Glu	Val	Asn	Ala	Ser	Asp	Phe	Pro	Pro	Pro	Pro	Thr	Asp	Glu
			260					265					270		
Glu	Leu	Arg	Leu	Ala	Leu	Pro	Glu	Thr	Pro	Met	Leu	Leu	Gly	Phe	Asn
		275					280					285			
Ala	Pro	Ala	Thr	Ser	Glu	Pro	Ser	Ser	Phe	Glu	Phe	Pro	Pro	Pro	Pro
	290					295					300				
Thr	Asp	Glu	Glu	Leu	Arg	Leu	Ala	Leu	Pro	Glu	Thr	Pro	Met	Leu	Leu
305					310					315					320
Gly	Phe	Asn	Ala	Pro	Ala	Thr	Ser	Glu	Pro	Ser	Ser	Phe	Glu	Phe	Pro
			325						330					335	
Pro	Pro	Pro	Thr	Glu	Asp	Glu	Leu	Glu	Ile	Ile	Arg	Glu	Thr	Ala	Ser
			340					345					350		
Ser	Leu	Asp	Ser	Ser	Phe	Thr	Arg	Gly	Asp	Leu	Ala	Ser	Leu	Arg	Asn
		355					360					365			
Ala	Ile	Asn	Arg	His	Ser	Gln	Asn	Phe	Ser	Asp	Phe	Pro	Pro	Ile	Pro
	370					375					380				
Thr	Glu	Glu	Glu	Leu	Asn	Gly	Arg	Gly	Gly	Arg	Pro	Thr	Ser	Glu	Glu
385					390					395					400
Phe	Ser	Ser	Leu	Asn	Ser	Gly	Asp	Phe	Thr	Asp	Asp	Glu	Asn	Ser	Glu
			405						410					415	
Thr	Thr	Glu	Glu	Glu	Ile	Asp	Arg	Leu	Ala	Asp	Leu	Arg	Asp	Arg	Gly
			420					425					430		
Thr	Gly	Lys	His	Ser	Arg	Asn	Ala	Gly	Phe	Leu	Pro	Leu	Asn	Pro	Phe
		435					440					445			
Ala	Ser	Ser	Pro	Val	Pro	Ser	Leu	Ser	Pro	Lys	Val	Ser	Lys	Ile	Ser
	450					455					460				
Ala	Pro	Ala	Leu	Ile	Ser	Asp	Ile	Thr	Lys	Lys	Thr	Pro	Phe	Lys	Asn
465					470					475					480
Pro	Ser	Gln	Pro	Leu	Asn	Val	Phe	Asn	Lys	Lys	Thr	Thr	Thr	Lys	Thr
			485						490					495	
Val	Thr	Lys	Lys	Pro	Thr	Pro	Val	Lys	Thr	Ala	Pro	Lys	Leu	Ala	Glu
			500					505					510		
Leu	Pro	Ala	Thr	Lys	Pro	Gln	Glu	Thr	Val	Leu	Arg	Glu	Asn	Lys	Thr
		515					520					525			
Pro	Phe	Ile	Glu	Lys	Gln	Ala	Glu	Thr	Asn	Lys	Gln	Ser	Ile	Asn	Met
	530					535					540				
Pro	Ser	Leu	Pro	Val	Ile	Gln	Lys	Glu	Ala	Thr	Glu	Ser	Asp	Lys	Glu
545					550					555					560
Glu	Met	Lys	Pro	Gln	Thr	Glu	Glu	Lys	Met	Val	Glu	Glu	Ser	Glu	Ser
			565						570					575	
Ala	Asn	Asn	Ala	Asn	Gly	Lys	Asn	Arg	Ser	Ala	Gly	Ile	Glu	Glu	Gly
			580					585					590		
Lys	Leu	Ile	Ala	Lys	Ser	Ala	Glu	Asp	Glu	Lys	Ala	Lys	Glu	Glu	Pro
			595				600					605			
Gly	Asn	His	Thr	Thr	Leu	Ile	Leu	Ala	Met	Leu	Ala	Ile	Gly	Val	Phe
	610					615					620				
Ser	Leu	Gly	Ala	Phe	Ile	Lys	Ile	Ile	Gln	Leu	Arg	Lys	Asn	Asn	
625					630					635					

<210> 6
 <211> 4
 <212> PRT
 <213> Homo sapien

<220>
 <221> UNSURE
 <222> (4)...(4)
 <223> Xaa is any amino acid

<400> 6
 Cys Ala Ala Xaa
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<210> 7
 <211> 9
 <212> PRT

<213> Homo sapien

<220>

<221> UNSURE

<222> (9)...(9)

<223> Xaa is any amino acid

<400> 7

Phe Pro Pro Pro Pro Cys Ala Ala Xaa
1 5

<210> 8

<211> 9

<212> PRT

<213> Homo sapien

<220>

<221> UNSURE

<222> (9)...(9)

<223> Xaa is any amino acid

<400> 8

Ala Pro Pro Pro Pro Cys Ala Ala Xaa
1 5

<210> 9

<211> 684

<212> PRT

<213> Drosophila melanogaster

<400> 9

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Asp	Asp	Asn	Gln	Lys	Lys	Trp	Val	Pro	Ser	Gly	Ser	Ser	Ser	Gly	Leu
			20					25					30		
Ser	Lys	Val	Gln	Ile	Tyr	His	His	Gln	Gln	Asn	Asn	Thr	Phe	Arg	Val
		35					40					45			
Val	Gly	Arg	Lys	Leu	Gln	Asp	His	Glu	Val	Val	Ile	Asn	Cys	Ser	Ile
	50				55						60				
Leu	Lys	Gly	Leu	Lys	Tyr	Asn	Gln	Ala	Thr	Ala	Thr	Phe	His	Gln	Trp
65					70				75					80	
Arg	Asp	Ser	Lys	Phe	Val	Tyr	Gly	Leu	Asn	Phe	Ser	Ser	Gln	Asn	Asp
			85					90						95	
Ala	Glu	Asn	Phe	Ala	Arg	Ala	Met	Met	His	Ala	Leu	Glu	Val	Leu	Ser
			100				105						110		
Gly	Arg	Val	Ala	Asn	Asn	Pro	Gly	Gly	Pro	Pro	Thr	Asn	Gly	Asn	Gly
		115					120					125			
Tyr	Glu	Glu	Asp	Met	Gly	Tyr	Arg	Thr	Met	Thr	Ser	Glu	Asp	Ala	Ala
	130				135						140				
Ile	Leu	Arg	Gln	Asn	Asn	Ser	Ile	Gly	Gly	His	Val	Thr	Pro	Ser	Ala
145				150						155				160	
Gln	Thr	Pro	Thr	Ser	Gln	Thr	Asn	Gln	Asn	Asn	Ile	Pro	Gln	Ser	Pro
			165						170					175	
Pro	Thr	Pro	Gln	Gly	His	His	Arg	Thr	Ser	Ser	Ala	Pro	Pro	Ala	Pro
			180					185					190		
Gln	Pro	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Ala	Gln	Gln	Met	Gly	Gln
		195					200					205			
Pro	Gly	Ser	His	Tyr	Gly	Pro	Thr	Gly	Asn	Gly	Pro	Thr	Ser	Asn	Gly
	210				215						220				
Leu	Pro	Gln	Gln	Val	Asn	Ser	Gln	Ile	Pro	Pro	Ala	Pro	Gln	Gln	Gln
225					230					235				240	
Pro	Gln	Gln	Gln	Gln	Phe	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Tyr	Gln
			245					250						255	
Gln	Met	Val	Gln	Ala	Gly	Tyr	Ala	Pro	Ser	Gln	Gln	Tyr	Gln	Gln	Pro
		260					265						270		
His	Tyr	Val	Leu	Ser	Asn	Ser	Asn	Pro	Asn	Leu	Thr	Val	His	Gln	Tyr
		275					280					285			
Pro	Thr	Gln	Gln	Ala	Gln	Gln	Gln	Pro	Pro	Gln	Ala	Pro	Gln	Pro	Pro

290	295	300
Leu Gln Asn Gly Gly Met Tyr Met Val Gly His Ser His Leu Pro Ser		
305	310	315
Ser Ala Ser Ala Asn Ser Val Val Tyr Ala Ser Gln Gln Gln Met Leu		320
	325	330
Pro Gln Ala His Pro Gln Ala Pro Gln Ala Pro Thr Met Pro Gly Pro		335
	340	345
Gly Tyr Gly Gly Pro Pro Val Pro Pro Pro Gln Gln Gln Ala Glu Asn		350
	355	360
Pro Tyr Gly Gln Val Pro Met Pro Pro Pro Met Asn Pro Ser Gln Gln		365
	370	375
Gln Gln Pro Gly Gln Val Pro Leu Asn Arg Met Ser Ser Gln Gly Gly		380
385	390	395
Pro Gly Gly Pro Pro Ala Pro Ala Pro Pro Pro Pro Pro Ser Phe		400
	405	410
Gly Gly Ala Ala Gly Gly Gly Pro Pro Pro Pro Ala Pro Pro Gln Met		415
	420	425
Phe Asn Gly Ala Pro Pro Pro Pro Ala Met Gly Gly Gly Pro Pro Pro		430
	435	440
Ala Pro Pro Ala Pro Pro Ala Met Gly Gly Gly Pro Pro Ala Pro		445
	450	455
Gly Gly Pro Gly Ala Pro Pro Pro Pro Pro Pro Pro Gly Leu Gly		460
465	470	475
Gly Ala Pro Lys Lys Glu Asp Pro Gln Ala Asp Leu Met Gly Ser Leu		480
	485	490
Ala Ser Gln Leu Gln Gln Phe Lys Leu Lys Lys Asn Lys Val Thr Thr		495
	500	505
Ser Ala Pro Glu Asn Ser Gly Ser Ser Thr Ser Ser Gly Ser Gly		510
	515	520
Asn Tyr Gly Thr Ile Gly Arg Ser Ser Asn Gly Met Ala Ser Met Met		525
	530	535
Asp Glu Met Ala Lys Thr Leu Ala Arg Arg Arg Ala Gln Ala Glu Lys		540
545	550	555
Lys Asp Pro Asp Pro Glu Ala Glu Val Lys Lys Arg Pro Trp Glu Lys		560
	565	570
Ser Asn Thr Leu Pro His Lys Leu Ser Gly Gly Ala Gly Ser Gly Ser		575
	580	585
Ala Gly Ser Gly His Glu Gly Ala Asn Gly Asn Ser Gly Gly Ala Gly		590
	595	600
Ser Asn Thr Thr Asn Ser Gly Gly Glu Ser Pro Arg Pro Met Arg Lys		605
	610	615
Arg Phe Gly Ser Ala Ser Glu Glu Thr Ile Leu Lys Val Asn Gly Asp		620
625	630	635
Gly Leu Ser Leu Ala Leu Ser Asn Gly Asp Leu Asp Thr Leu Lys Ala		640
	645	650
Glu Ile Val Arg Glu Met Arg Leu Glu Ile Gln Lys Val Lys Asn Glu		655
	660	665
Ile Ile Asp Ala Ile Lys Ser Glu Phe Asn Arg Arg		670
	675	680

<210> 10
 <211> 380
 <212> PRT
 <213> Homo sapien

<400> 10
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Asp Asp Gly Asn Lys Arg Trp Leu Pro Ala Gly Thr Gly Pro Gln Ala
20 25 30
Phe Ser Arg Val Gln Ile Tyr His Asn Pro Thr Ala Asn Ser Phe Arg
35 40 45
Val Val Gly Arg Lys Met Gln Pro Asp Gln Gln Val Val Ile Asn Cys
50 55 60
Ala Ile Val Arg Gly Val Lys Tyr Asn Gln Ala Thr Pro Asn Phe His
65 70 75 80
Gln Trp Arg Asp Ala Arg Gln Val Trp Gly Leu Asn Phe Gly Ser Lys
85 90 95

Glu	Asp	Ala	Ala	Gln	Phe	Ala	Ala	Gly	Met	Ala	Ser	Ala	Leu	Glu	Ala
		100						105					110		
Leu	Glu	Gly	Gly	Gly	Pro	Pro	Pro	Pro	Pro	Ala	Leu	Pro	Thr	Trp	Ser
		115					120					125			
Val	Pro	Asn	Gly	Pro	Ser	Pro	Glu	Glu	Val	Glu	Gln	Gln	Lys	Arg	Gln
		130				135					140				
Gln	Pro	Gly	Pro	Ser	Glu	His	Ile	Glu	Arg	Arg	Val	Ser	Asn	Ala	Gly
145					150					155					160
Gly	Pro	Pro	Ala	Pro	Pro	Ala	Gly	Gly	Pro	Pro	Pro	Pro	Pro	Gly	Pro
			165						170					175	
Pro	Pro	Pro	Pro	Gly	Pro	Pro	Pro	Pro	Pro	Gly	Leu	Pro	Pro	Ser	Gly
			180					185					190		
Val	Pro	Ala	Ala	Ala	His	Gly	Ala	Gly	Gly	Gly	Pro	Pro	Pro	Ala	Pro
		195					200					205			
Pro	Leu	Pro	Ala	Ala	Gln	Gly	Pro	Gly	Gly	Gly	Gly	Ala	Gly	Ala	Pro
		210				215					220				
Gly	Leu	Ala	Ala	Ala	Ile	Ala	Gly	Ala	Lys	Leu	Arg	Lys	Val	Ser	Lys
225					230					235					240
Gln	Glu	Glu	Ala	Ser	Gly	Gly	Pro	Thr	Ala	Pro	Lys	Ala	Glu	Ser	Gly
			245						250					255	
Arg	Ser	Gly	Gly	Gly	Gly	Leu	Met	Glu	Glu	Met	Asn	Ala	Met	Leu	Ala
			260					265					270		
Arg	Arg	Arg	Lys	Ala	Thr	Gln	Val	Gly	Glu	Lys	Thr	Pro	Lys	Asp	Glu
			275				280						285		
Ser	Ala	Asn	Gln	Glu	Glu	Pro	Glu	Ala	Arg	Val	Pro	Ala	Gln	Ser	Glu
		290				295					300				
Ser	Val	Arg	Arg	Pro	Trp	Glu	Lys	Asn	Ser	Thr	Thr	Leu	Pro	Arg	Met
305					310					315					320
Lys	Ser	Ser	Ser	Ser	Val	Thr	Thr	Ser	Glu	Thr	Gln	Pro	Cys	Thr	Pro
					325				330					335	
Ser	Ser	Ser	Asp	Tyr	Ser	Asp	Leu	Gln	Arg	Val	Lys	Gln	Glu	Leu	Leu
			340				345						350		
Glu	Glu	Val	Lys	Lys	Glu	Leu	Gln	Lys	Val	Lys	Glu	Glu	Ile	Ile	Glu
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Ala	Phe	Val	Gln	Glu	Leu	Arg	Lys	Arg	Gly	Ser	Pro				
		370				375					380				

<210> 11
 <211> 393
 <212> PRT
 <213> Mus musculus

Met	Ser	Glu	Gln	Ser	Ile	Cys	Gln	Ala	Arg	Ala	Ser	Val	Met	Val	Tyr
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Asp	Asp	Thr	Ser	Lys	Lys	Trp	Val	Pro	Ile	Lys	Pro	Gly	Gln	Gln	Gly
			20					25					30		
Phe	Ser	Arg	Ile	Asn	Ile	Tyr	His	Asn	Thr	Ala	Ser	Ser	Thr	Phe	Arg
		35				40					45				
Val	Val	Gly	Val	Lys	Leu	Gln	Asp	Gln	Gln	Val	Val	Ile	Asn	Tyr	Ser
		50				55					60				
Ile	Val	Lys	Gly	Leu	Lys	Tyr	Asn	Gln	Ala	Thr	Pro	Thr	Phe	His	Gln
65					70					75					80
Trp	Arg	Asp	Ala	Arg	Gln	Val	Tyr	Gly	Leu	Asn	Phe	Ala	Ser	Lys	Glu
			85						90					95	
Glu	Ala	Thr	Thr	Phe	Ser	Asn	Ala	Met	Leu	Phe	Ala	Leu	Asn	Ile	Met
			100					105					110		
Asn	Ser	Gln	Glu	Gly	Gly	Pro	Ser	Thr	Gln	Arg	Gln	Val	Gln	Asn	Gly
		115					120					125			
Pro	Ser	Pro	Glu	Glu	Met	Asp	Ile	Gln	Arg	Arg	Gln	Val	Met	Glu	Gln
		130				135					140				
Gln	His	Arg	Gln	Glu	Ser	Leu	Glu	Arg	Arg	Ile	Ser	Ala	Thr	Gly	Pro
145					150					155					160
Ile	Leu	Pro	Pro	Gly	His	Pro	Ser	Ser	Ala	Ala	Ser	Thr	Thr	Leu	Ser
				165					170					175	
Cys	Ser	Gly	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Val	Pro	Pro	Pro	Pro
			180					185					190		
Thr	Gly	Ser	Thr	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Ala	Gly	Gly	Ala

[illegible]